



Flexcap TM ***Diffuser***

**The First Diffuser Engineered For Extended Life
Without Plugging, Without Blow-Off,
Without Maintenance. We Guarantee It!**

Design Breakthrough Makes Available The Most Reliable Coarse Bubble Diffuser Ever Built

At Mooers Products, our experience with coarse bubble diffusers goes back to the 1970's... we've seen hundreds of installations with more diffusers than we can count. And repeatedly, we've seen operators experiencing plugging and blow-off problems.

Mooers Offers A Better Engineered Diffuser, Designed For Longevity! The Proof Is In Our Performance.

We haven't heard of any performance problems since the Flexcap™ Diffuser was introduced. Meanwhile, ordinary diaphragm diffusers still have the same old problems: plugging, brittleness, periodic maintenance and eventual blow-off. The Flexcap Diffuser was engineered from the cap down to the threads to eliminate those problems. The result: the first true extended-life diffuser available.

And It Works!

It works twice as long as any other diaphragm diffuser available today. It will not plug. It will not blow-off. It even resists brittleness. And it's virtually maintenance free.

This may seem hard to believe after all the promises and claims you have heard about diffusers. But we have so much confidence in the Flexcap Diffuser that we guarantee it.

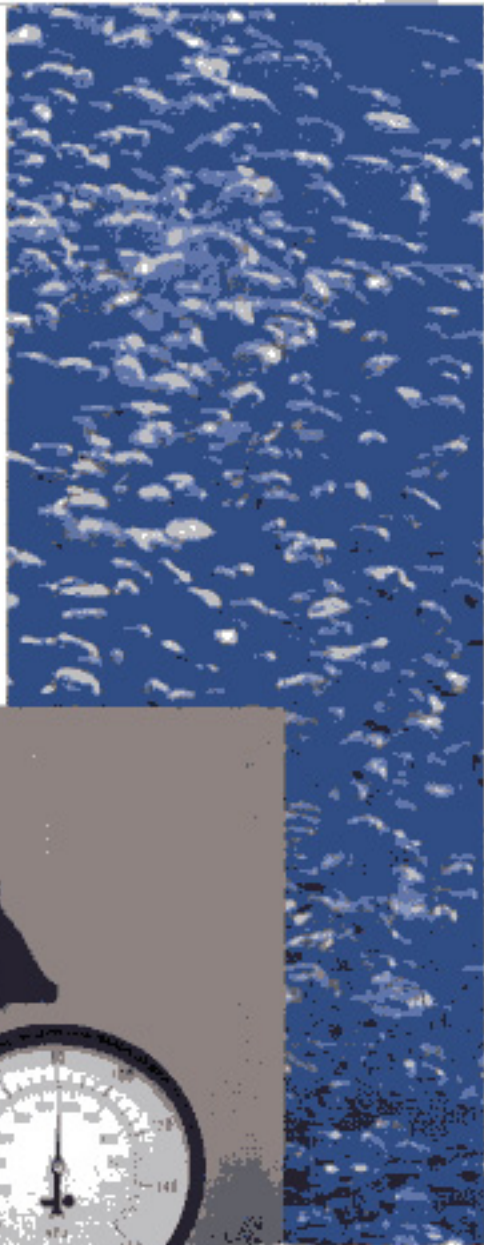
80 PSI And It Didn't Blow

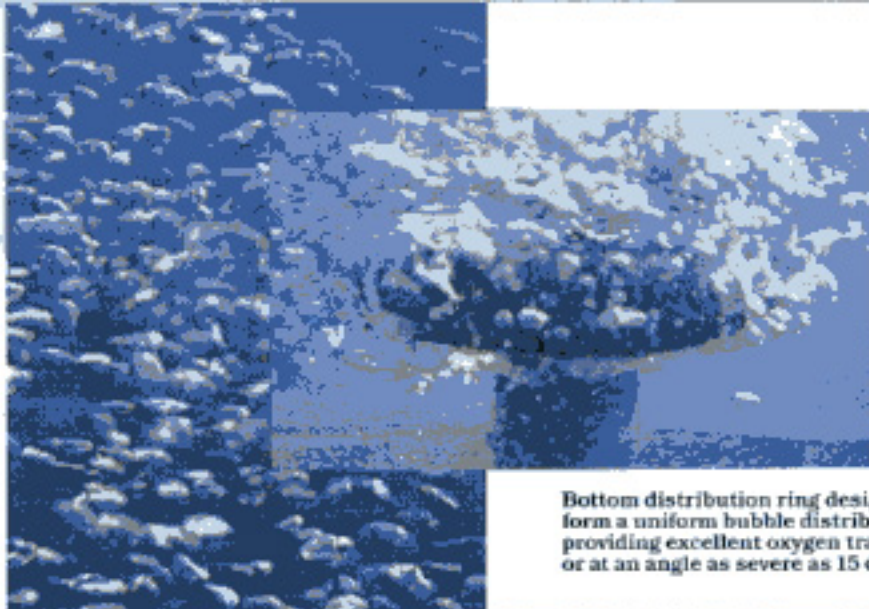
Sudden bursts of extreme air pressure, debris or brittleness over time cause ordinary diffusers to blow their caps. The Flexcap Diffuser won't blow its cap, not even when the pressure reaches 80 PSI or more. Debris can't plug it and even calcium carbonate build up is eliminated. (Test results are available so you can see for yourself.)

If brittleness does set in, this cap is designed to hug the base even tighter. No other diffuser can make these claims. We know. We've used and tested them all.

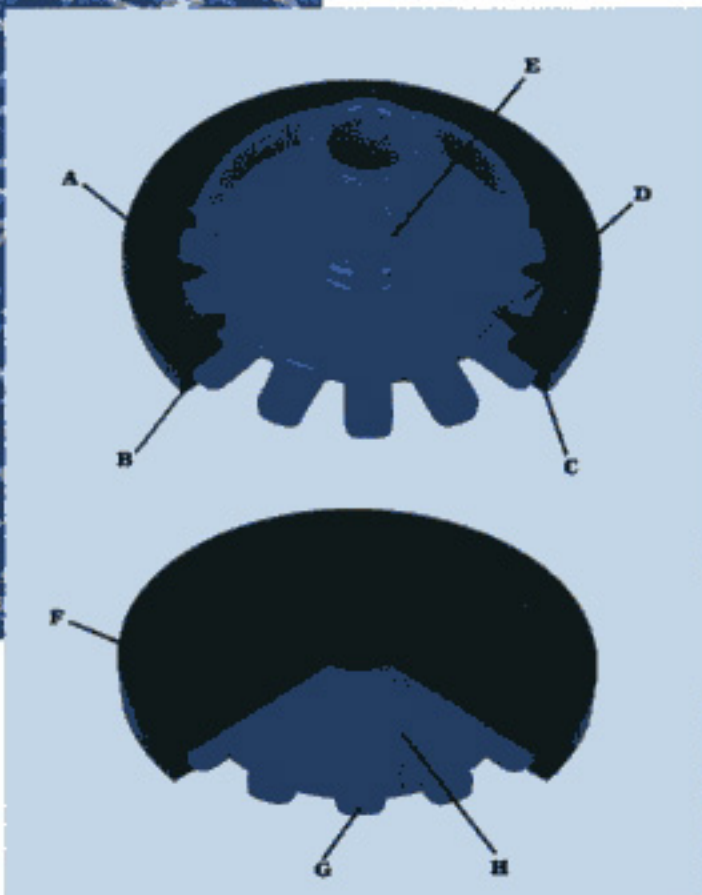
Check Valve Action Keeps Debris Out Of System

The smooth top on the base keeps debris from clinging and settling. This feature along with the greater flexibility of the cap provides a tight leak proof seating surface. When the air supply stops, the larger diameter of the base and cap allows added pressure from the liquid above to close the cap more securely to the base. This combined check valve action minimizes the chance of any debris or water entering the diffuser.





Bottom distribution ring design with air holes spaced on outside of the base form a uniform bubble distribution over the entire diameter of diffuser providing excellent oxygen transfer. It works whether the installation is flat or at an angle as severe as 15 degrees.



- A. Air holes on underside of diffuser combine with self wiping action to keep diffuser from plugging.
- B. Pockets reinforce locking lips to prevent walk off.
- C. Pockets actually agitate back and forth during aeration, to wipe away debris and prevent plugging.
- D. Cap placement on base allows movement ... cap can't be forced off even during extreme contraction.
- E. Uniform thread design makes replacement easy in existing or new installation.
- F. Cap material specially formulated to retain flexibility longer.
- G. Multiple fingers are extra long and uniform to accept direct stress. This holds cap on even under extreme pressure, shifting and vibration.
- H. Smooth top keeps debris from clinging and settling on base. Provides clean, even seating surface when air is shut off.

On The Outside It Works Like A Diffuser

The Flexcap Diffuser can replace any diaphragm diffuser you are using. It meets all the requirements for aeration in municipal, commercial, residential and recreational property package wastewater treatment systems. And it works effectively in existing or new installations.

The Flexcap Diffuser uses a uniquely engineered cap and base that is deceptively simple in appearance, but it has been designed to work where other diffusers have failed.

On The Inside No Other Diffuser Can Match It

On the outside the Flexcap looks like every other diaphragm diffuser. But inside, is what makes the difference. Take a closer look. It's enough to change your mind about diaphragm diffusers.

What It Doesn't Do Is What Every Operator Wants

No Plugging

- Underside orifice design prevents debris from settling inside the diffuser.
- Controlled velocity through air holes provides a positive flushing action.
- Dissimilar materials forming the orifice cause a flexing at the air holes that "wipes" the surface free of debris.

No Blow-Off

- Multiple fingers provide a blow-proof locking action by transferring stress to the outer tips. This action forces the cap tightly onto the diffuser.
- Pockets used to reinforce cap also reinforce locking lip to minimize movement and prevent cap from walking off disc plate.

Minimizes Effect of Brittleness

- Unique cap and base design actually locks the cap tighter onto the base if brittleness does occur.
- Even before it hits the water, the cap is more flexible than other diffusers through the use of lower durometer cap material.

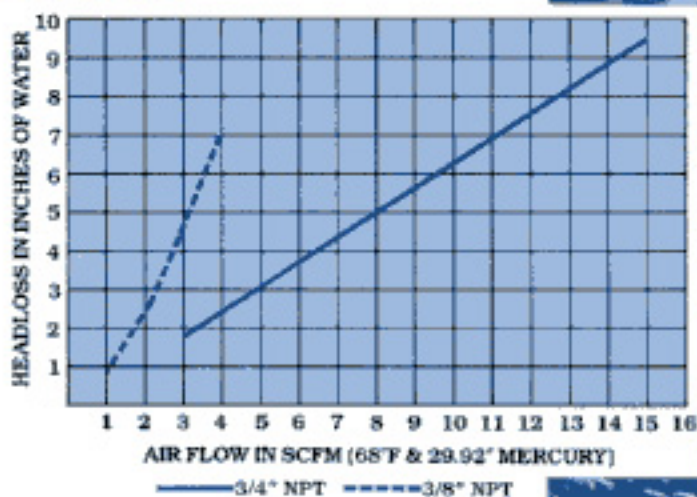
No Maintenance

Because the Flexcap Diffuser doesn't plug, won't blow-off and isn't as susceptible to failure due to brittleness, it is virtually maintenance free. No other diffuser can match this performance.

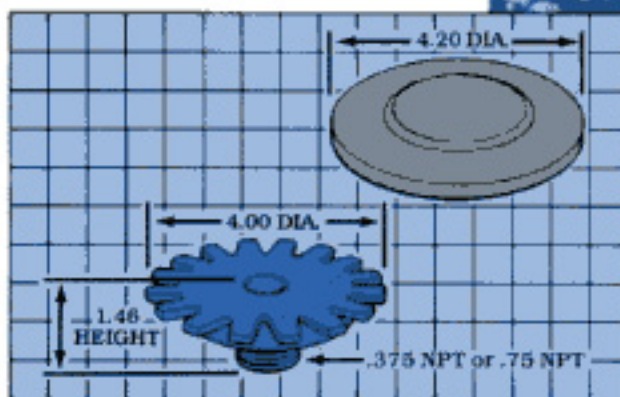
Years of experience have proven how reliable the Flexcap Diffuser is ... You can find out how to solve your problems with a phone call. Check the facts on the back cover; then call for a demonstration.

Figure It Out For Yourself... The Flexcap™ Diffuser Can Save You Labor, Time and Money

Head Loss Characteristics



Dimensions And Specifications



SPECIFICATIONS

EPDM CAP
POLYPROPYLENE BASE
TOTAL HEIGHT 1.625 IN.

Other Technical Data available upon request.



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